Data Wrangling with SQL Good morning! We start at 10:00

Que () Stock I tem Report More St. UPrice > USB Granis

XI StockItem Query (2) 51 USB: Dissile Groch Offica (Lbe Prin Be USB: Rocket Laurahe, Cinx DBA joke meg Wood USBITOOD Flack Dingsyli DISA joke my 13. USBFoodFlash, Drive HD DBA j. Kr. my dan U. USB Food Flack Date PS DBA joile my dan B.

String manipulation (1) USB Green — USB // USB Character
Green USB — // USB Rocket USB Green -> 1. USB.1.

RockUSB blue

Strip manipulation (2) Mutch out for the Collation

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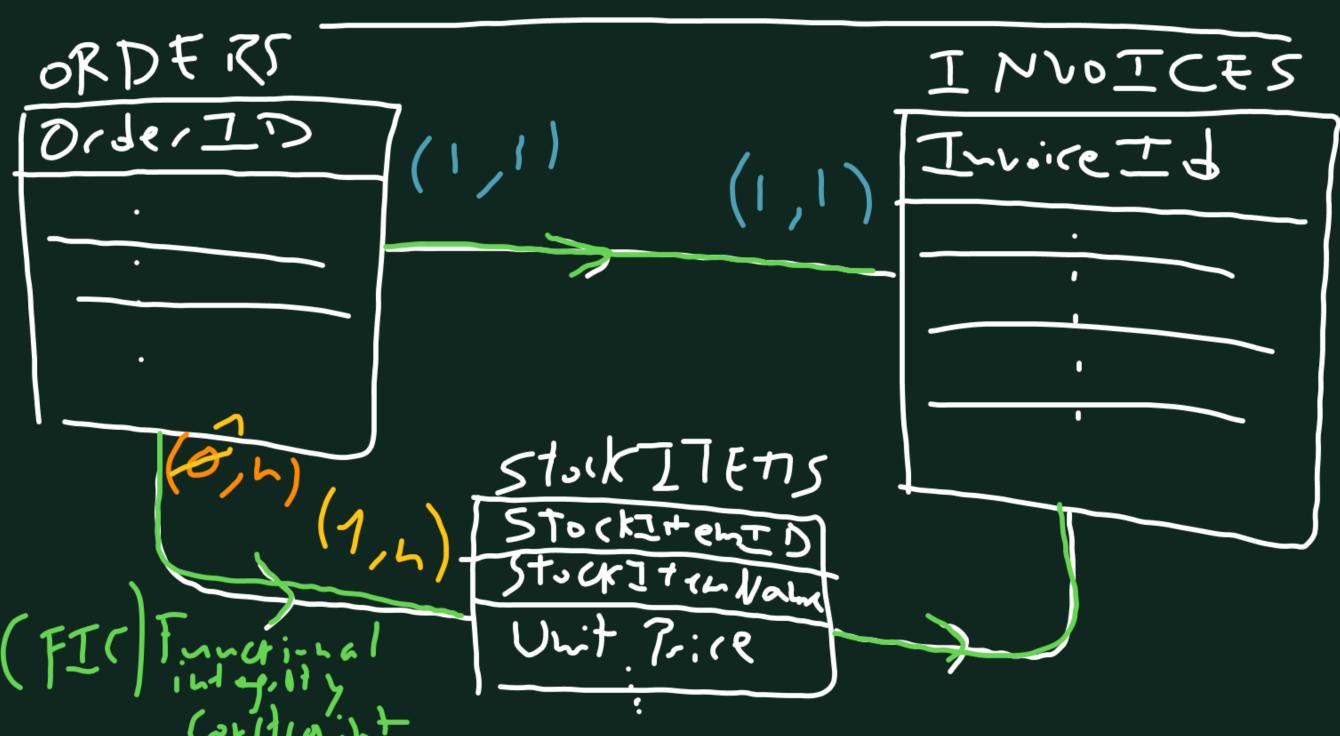
SEBIST Like USBy = Like viby.

Break
Backat 11:40

Orders 8 Invoices

TNVOTCE TT (Ho)

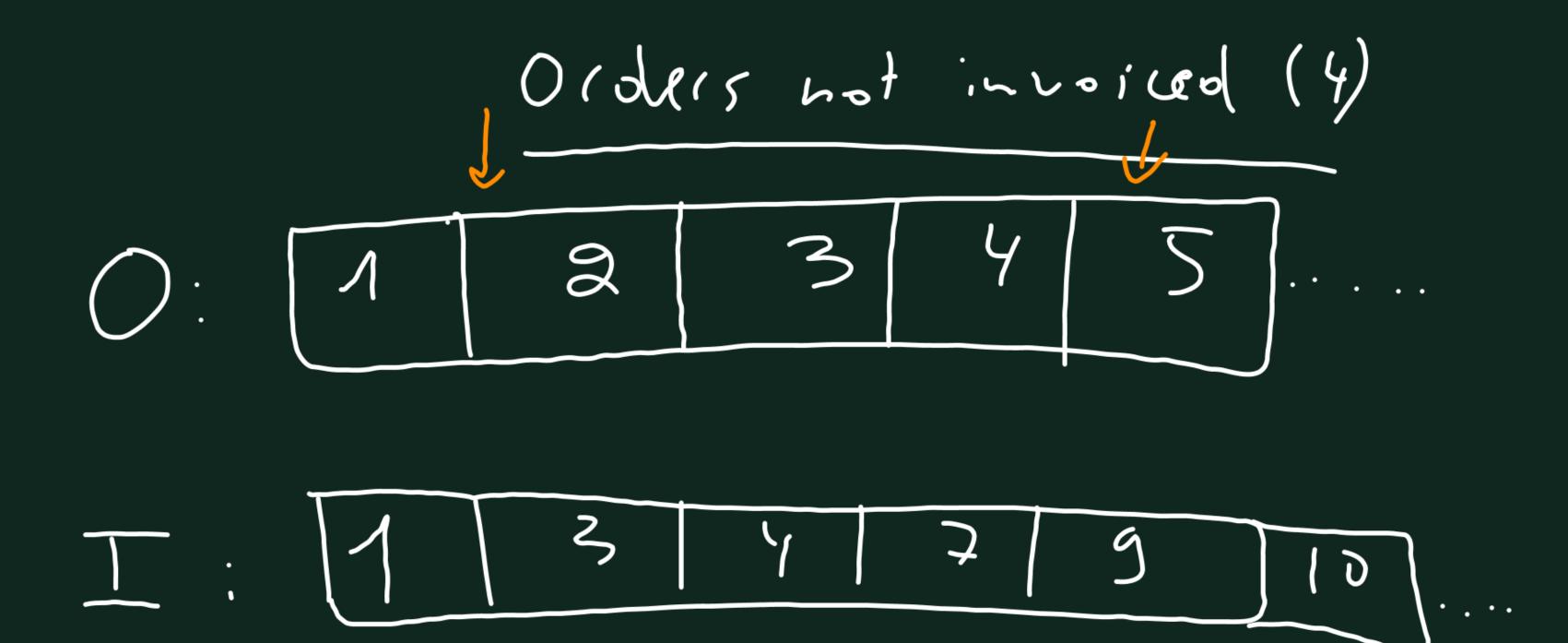
Entity/Relationship Diagram



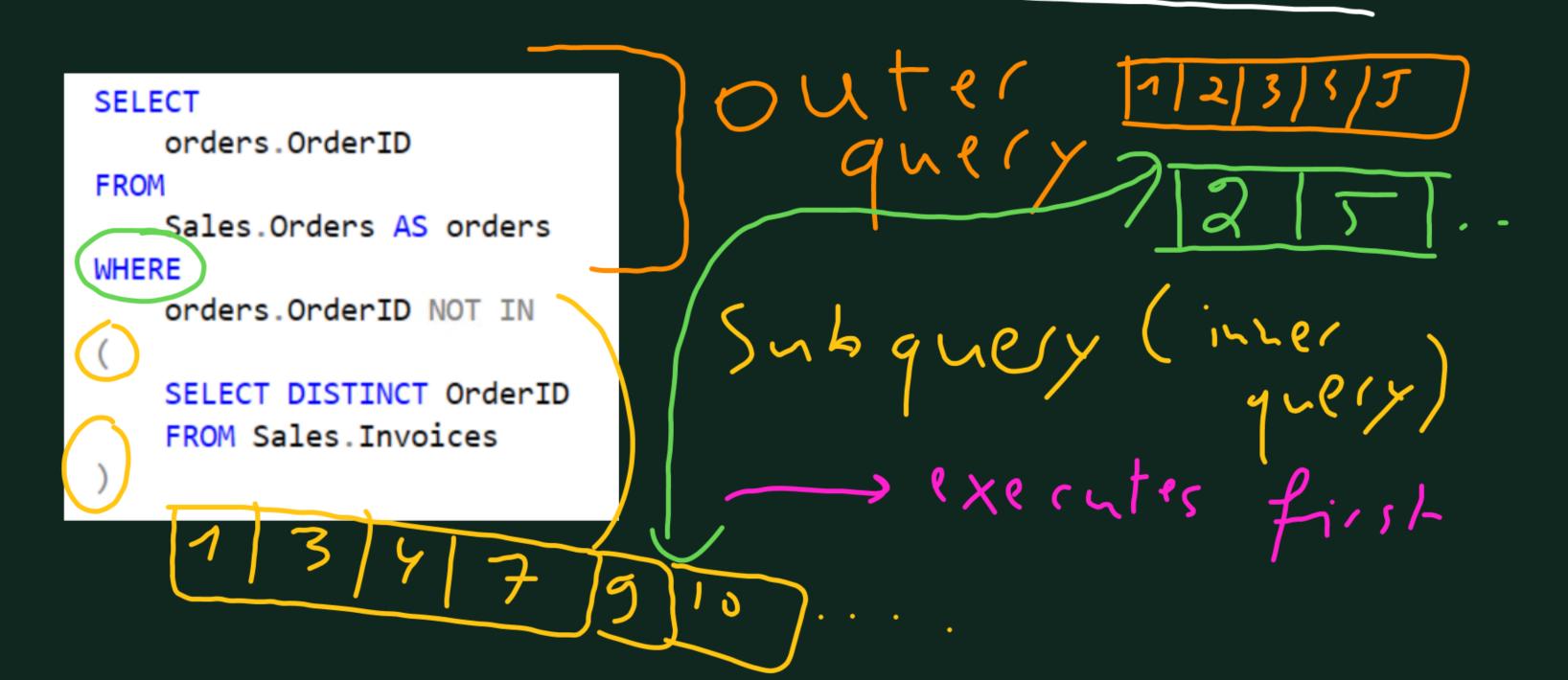
Lunch Back at 14:00

Oders hat invoiced (1) ORDERS INVOICES ORDERS That have Orolers not invoiced (2) left outer join

Orders not invoiced (3) Left outor join



Oldris and invoices (5)



Existence que(y(1) Structure: -> Outer part Johnson (inner part')
Validatis the existence

Existence puers (2) Why we like it: ->> Reasining Ly Complement (all elements that do not bely to a given set ...) -s Optimal way to solve this Kind

Brenk Back at 15:20

Orders & Invoites ORDER JNVOICE _USB GIRENX7 irroiceline

Duplicate Columns (1) Attibutes (columns) 0 L > 17 P I C Re(50m 57), -Height Weight
(m) (x) Sebastiah Lunning Hlanka Swimhinp 130 30 Hahha Jennis

Let Duplicate Columns (2) ATHLETES OLY17PZ C 7,15. TD Pris. Name Height Wright RecsouTD Spr. + Sepastin 190 1 whhise Swims ming 2 Hong 170 70 - 2 Jehh;5 30 2

Date Manipulation InvoiceDate = 2014-01-01" 1) 2014-01-01 < InvoiceDate < 2014-72-31 2) InvoiceDate (Year) = 2014

2°14 Profit Query

Aggregate in spunction 200,000 1 ling 1 1: (+). -...

Throices 3 Invoices Lines

Generating a report 2014 2013 110,000 105,000